

Gregory, Bernarr

From: PLUS
Sent: Tuesday, January 25, 2005 4:07 PM
To: Gregory, Bernarr
Subject: PLUS Results for 10777765

Here are the PLUS search results for 10777765.

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10777765_QUAL.txt



10777765_LIST.txt



10777765_WEST.txt



10777765_EAST.txt



10777765.east



10777765_CLS.txt



10777765_CLSTITLES.t

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10777765_WDS.txt

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PLUS Search Results for S/N 10777765, Searched January 25, 2005

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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10777765_CLS

Most Frequently Occurring Classifications of Patents Returned
From A Search of 10777765 on January 25, 2005

Original Classifications

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| 3 | 73/304C |
| 3 | 324/644 |
| 3 | 327/181 |
| 3 | 342/118 |
| 3 | 342/196 |
| 3 | 342/202 |
| 3 | 342/22 |
| 3 | 342/25R |
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| 3 | 342/93 |
| 3 | 356/5.09 |
| 3 | 701/45 |
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| 2 | 73/660 |
| 2 | 257/431 |
| 2 | 307/106 |
| 2 | 324/642 |
| 2 | 342/109 |
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| 2 | 375/340 |
| 2 | 600/493 |
| 2 | 702/3 |

2 706/20

Cross-Reference Classifications

16 342/195
14 73/290R
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3 324/644

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2 375/349
2 442/230
2 442/231
2 455/305

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2 600/493
2 702/3
2 706/20
2 706/28
2 708/404
2 708/405

10777765_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 10777765 on January 25, 2005

| | | |
|----|-------------|--|
| 31 | 342/124 | (22 OR, 9 XR) |
| | Class 342 : | COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES |
| | 342/118 | DETERMINING DISTANCE |
| | 342/124 | .Material level within container |
| 22 | 73/290R | (8 OR, 14 XR) |
| | Class 073 : | MEASURING AND TESTING |
| | 73/290R | LIQUID LEVEL OR DEPTH GAUGE |
| 20 | 73/290V | (8 OR, 12 XR) |
| | Class 073 : | MEASURING AND TESTING |
| | 73/290R | LIQUID LEVEL OR DEPTH GAUGE |
| | 73/290V | .Vibratory type |
| 17 | 342/195 | (1 OR, 16 XR) |
| | Class 342 : | COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES |
| | 342/175 | WITH PARTICULAR CIRCUIT |
| | 342/195 | .Digital processing |
| 16 | 342/118 | (3 OR, 13 XR) |
| | Class 342 : | COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES |
| | 342/118 | DETERMINING DISTANCE |
| 14 | 342/201 | (7 OR, 7 XR) |
| | Class 342 : | COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES |
| | 342/175 | WITH PARTICULAR CIRCUIT |
| | 342/200 | .For frequency modulation |
| | 342/201 | ..Combined with pulse modulation |
| 13 | 342/160 | (8 OR, 5 XR) |
| | Class 342 : | COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES |
| | 342/159 | CLUTTER ELIMINATION |
| | 342/160 | .MTI (Moving target indicator) |
| 12 | 342/91 | (3 OR, 9 XR) |
| | Class 342 : | COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES |
| | 342/73 | RETURN SIGNAL CONTROLS RADAR SYSTEM |

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342/89 .Receiver
342/91 ..Gain or threshold

- 11 342/159 (4 OR, 7 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/159 CLUTTER ELIMINATION
- 11 342/189 (5 OR, 6 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/175 WITH PARTICULAR CIRCUIT
342/189 .For correlation
- 11 342/196 (3 OR, 8 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/175 WITH PARTICULAR CIRCUIT
342/195 .Digital processing
342/196 ..Fast fourier transform (FFT)
- 10 342/13 (8 OR, 2 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/13 RADAR EW (ELECTRONIC WARFARE)
- 10 342/132 (4 OR, 6 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/118 DETERMINING DISTANCE
342/128 .With frequency modulation
342/130 ..Plural modulation
342/131 ...Combined with pulse modulation (e.g.,
frequency agile)
342/132With pulse modulation (e.g., "Chirp")
- 10 342/175 (0 OR, 10 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/175 WITH PARTICULAR CIRCUIT
- 8 342/128 (0 OR, 8 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/118 DETERMINING DISTANCE
342/128 .With frequency modulation
- 8 342/145 (0 OR, 8 XR)

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 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/118 DETERMINING DISTANCE
 342/145 .With correlation

8 342/162 (4 OR, 4 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/159 CLUTTER ELIMINATION
 342/160 .MTI (Moving target indicator)
 342/162 ..Digital

8 342/192 (1 OR, 7 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/175 WITH PARTICULAR CIRCUIT
 342/192 .Spectrum analysis

8 342/202 (3 OR, 5 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/175 WITH PARTICULAR CIRCUIT
 342/202 .For pulse modulation

7 324/642 (2 OR, 5 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES
 REPRESENTATIVE OF ELECTRICAL STIMULUS/RE

SPONSE

RELATIONSHIPS
 324/629 .Distributive type parameters
 324/637 ..Using transmitted or reflected microwaves
 324/642 ...Where energy is reflected (e.g.,
 reflectometry)

7 342/93 (3 OR, 4 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/73 RETURN SIGNAL CONTROLS RADAR SYSTEM
 342/89 .Receiver
 342/91 ..Gain or threshold
 342/93 ...Constant false alarm rate (CFAR)

6 73/304C (3 OR, 3 XR)
 Class 073 : MEASURING AND TESTING
 73/290R LIQUID LEVEL OR DEPTH GAUGE
 73/304R .Immersible electrode type
 73/304C ..Capacitative

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6 324/644 (3 OR, 3 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES
 REPRESENTATIVE OF ELECTRICAL STIMULUS/R
 ESPONSE

RELATIONSHIPS
 324/629 .Distributive type parameters
 324/637 ..Using transmitted or reflected microwaves
 324/642 ...Where energy is reflected (e.g.,
 reflectometry)
 324/644To determine dimension (e.g., distance or
 thickness)

6 327/181 (3 OR, 3 XR)
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
 DEVICES, CIRCUITS, AND SYSTEMS
 327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
 327/181 .Electromagnetic pulse forming

6 342/115 (1 OR, 5 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/104 DETERMINING VELOCITY
 342/115 .Digital

6 342/134 (0 OR, 6 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/118 DETERMINING DISTANCE
 342/134 .With pulse modulation

6 342/194 (0 OR, 6 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/175 WITH PARTICULAR CIRCUIT
 342/194 .Complex signal (in phase and quadrature)

6 342/197 (2 OR, 4 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/175 WITH PARTICULAR CIRCUIT
 342/195 .Digital processing
 342/197 ..With video quantizer

6 342/205 (1 OR, 5 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES

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 342/175 WITH PARTICULAR CIRCUIT
 342/205 .Sensitivity time control (STC)

6 342/22 (3 OR, 3 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/22 TRANSMISSION THROUGH MEDIA OTHER THAN AIR OR
 FREE SPACE

6 342/37 (2 OR, 4 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/36 AIR TRAFFIC CONTROL
 342/37 .Secondary Surveillance Radar (SSR) or Air
 Traffic Control Radar Beacon System (ATCRBS

)

6 342/94 (1 OR, 5 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/73 RETURN SIGNAL CONTROLS RADAR SYSTEM
 342/89 .Receiver
 342/94 ..Gating

5 342/120 (1 OR, 4 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/118 DETERMINING DISTANCE
 342/120 .Altimeter

5 342/127 (0 OR, 5 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/118 DETERMINING DISTANCE
 342/127 .Phase comparison

5 342/174 (1 OR, 4 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/165 TESTING OR CALIBRATING OF RADAR SYSTEM
 342/173 .By monitoring
 342/174 ..Calibrating

5 342/203 (1 OR, 4 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/175 WITH PARTICULAR CIRCUIT
 342/202 .For pulse modulation

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342/203 ..With noise reduction

5 342/21 (2 OR, 3 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/21 BASE BAND SYSTEM

5 342/32 (1 OR, 4 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/29 AIRCRAFT COLLISION AVOIDANCE SYSTEM (CAS)

342/30 .With transponder

342/32 ..Included in Secondary Surveillance Radar (SSR

)
or Air Traffic Control Radio Beacon System
(ATCRBS)

5 342/379 (1 OR, 4 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/350 DIRECTIVE

342/378 .Utilizing correlation techniques

342/379 ..Side lobe elimination

5 342/39 (3 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/36 AIR TRAFFIC CONTROL

342/37 .Secondary Surveillance Radar (SSR) or Air
Traffic Control Radar Beacon System (ATCRB

S)
342/39 ..With side lobe suppression

5 342/40 (2 OR, 3 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/36 AIR TRAFFIC CONTROL

342/37 .Secondary Surveillance Radar (SSR) or Air
Traffic Control Radar Beacon System (ATCRB

S)
342/40 ..With defruiting or degarbling

5 342/82 (1 OR, 4 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/73 RETURN SIGNAL CONTROLS RADAR SYSTEM

342/82 .Transmitter

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- 5 342/89 (1 OR, 4 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/73 RETURN SIGNAL CONTROLS RADAR SYSTEM
 342/89 .Receiver
- 5 367/908 (0 OR, 5 XR)
 Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
 SYSTEMS AND DEVICES
 367/908 MATERIAL LEVEL DETECTION, E.G., LIQUID LEVEL
- 4 307/106 (2 OR, 2 XR)
 Class 307 : ELECTRICAL TRANSMISSION OR INTERCONNECTION
 SYSTEMS
 307/106 WAVE FORM OR WAVE SHAPE DETERMINATIVE OR
 PULSE-PRODUCING SYSTEMS
- 4 342/135 (0 OR, 4 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/118 DETERMINING DISTANCE
 342/134 .With pulse modulation
 342/135 ..Digital (e.g., with counter)
- 4 342/137 (1 OR, 3 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/118 DETERMINING DISTANCE
 342/134 .With pulse modulation
 342/137 ..With variable pulse repetition frequency
 (PRF) or pulse width
- 4 342/173 (1 OR, 3 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/165 TESTING OR CALIBRATING OF RADAR SYSTEM
 342/173 .By monitoring
- 4 342/378 (1 OR, 3 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/378 .Utilizing correlation techniques
- 4 342/42 (1 OR, 3 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/42 RADAR TRANSPONDER SYSTEM

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4 342/51 (2 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/42 RADAR TRANSPONDER SYSTEM
 342/51 .Radar transponder only

4 342/92 (1 OR, 3 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/73 RETURN SIGNAL CONTROLS RADAR SYSTEM
 342/89 .Receiver
 342/91 ..Gain or threshold
 342/92 ...Automatic gain control (AGC)

4 342/99 (0 OR, 4 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/73 RETURN SIGNAL CONTROLS RADAR SYSTEM
 342/89 .Receiver
 342/98 ..Frequency
 342/99 ...Doppler frequency tracking

4 356/5.09 (3 OR, 1 XR)
 Class 356 : OPTICS: MEASURING AND TESTING
 356/3 RANGE OR REMOTE DISTANCE FINDING
 356/4.01 .With photodetection
 356/5.09 ..Of frequency difference

4 367/99 (0 OR, 4 XR)
 Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
 SYSTEMS AND DEVICES
 367/87 ECHO SYSTEMS
 367/99 .Distance or direction finding

4 375/340 (2 OR, 2 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/316 RECEIVERS
 375/340 .Particular pulse demodulator or detector

3 73/304R (0 OR, 3 XR)
 Class 073 : MEASURING AND TESTING
 73/290R LIQUID LEVEL OR DEPTH GAUGE
 73/304R .Immersible electrode type

3 257/431 (2 OR, 1 XR)
 Class 257 : ACTIVE SOLID-STATE DEVICES
 257/414 RESPONSIVE TO NON-ELECTRICAL SIGNAL (E.G.,

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CHEMICAL, STRESS, LIGHT, OR MAGNETIC FIELD

D SENSORS)

257/428 .Electromagnetic or particle radiation
257/431 ..Light

3 257/E31.021 (0 OR, 3 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES

257/E31.001 SEMICONDUCTOR DEVICES RESPONSIVE OR SENSITIVE
TO ELECTROMAGNETIC RADIATION (E.G., I

NFRARED RADIATION,

ADAPTED FOR CONVERSION OF RADIATION I

NTO ELECTRICAL ENERGY

OR FOR CONTROL OF ELECTRICAL ENERGY B

Y SUCH RADIATION

PROCESSES, OR APPARATUS PECULIAR TO M

ANUFACTURE OR

TREATMENT OF SUCH DEVICES, OR OF PART

S THEREOF) (EPO)

257/E31.002 .Characterized by semiconductor body (EPO)

257/E31.003 ..Characterized by semiconductor body material
(EPO)

257/E31.004 ...Inorganic materials (EPO)

257/E31.019Including, apart from doping material or
other impurity, only Group III-V compound

(EPO)

257/E31.02For device having potential or surface
barrier (EPO)

257/E31.021Characterized by doping material GaAlAs,
InGaAs, InGaAsP (EPO)

3 257/E31.052 (0 OR, 3 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES

257/E31.046Including microcrystalline Group IV
compound (e.g., c-SiGe, c-SiC) (EPO)

257/E31.052 .Adapted to control current flow through devic

e

(e.g., photoresistor) (EPO)

3 324/637 (0 OR, 3 XR)

Class 324 : ELECTRICITY: MEASURING AND TESTING

324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES

REPRESENTATIVE OF ELECTRICAL STIMULUS/RES

PONSE

RELATIONSHIPS

324/629 .Distributive type parameters

324/637 ..Using transmitted or reflected microwaves

3 327/72 (0 OR, 3 XR)

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Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
DEVICES, CIRCUITS, AND SYSTEMS

327/1 SPECIFIC SIGNAL DISCRIMINATING (E.G.,
COMPARING, SELECTING, ETC.) WITHOUT SUBSE
QUENT CONTROL

327/50 .By amplitude

327/72 ..Input signal compared to reference derived
therefrom

3 331/65 (0 OR, 3 XR)

Class 331 : OSCILLATORS

331/65 WITH DEVICE RESPONSIVE TO EXTERNAL PHYSICAL
CONDITION

3 333/254 (0 OR, 3 XR)

Class 333 : WAVE TRANSMISSION LINES AND NETWORKS

333/245 LONG LINE ELEMENTS AND COMPONENTS

333/248 .Waveguide elements and components

333/254 ..Connectors and interconnections

3 342/104 (0 OR, 3 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/104 DETERMINING VELOCITY

3 342/109 (2 OR, 1 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/104 DETERMINING VELOCITY

342/109 .Combined with determining distance

3 342/126 (1 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/118 DETERMINING DISTANCE

342/126 .Triangulation

3 342/16 (1 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/13 RADAR EW (ELECTRONIC WARFARE)

342/16 .ECCM (Electronic counter-countermeasures,
i.e., antijamming)

3 342/198 (1 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/175 WITH PARTICULAR CIRCUIT

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342/198 .For receiver protection

3 342/204 (1 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/175 WITH PARTICULAR CIRCUIT
 342/202 .For pulse modulation
 342/204 ..With pulse shaping

3 342/25F (0 OR, 3 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/25R SYNTHETIC APERTURE RADAR
 342/25A .Mapping or imaging using synthetic aperture
 radar
 342/25F ..Particular SAR processing techniques (e.g.
 squint mode, doppler beam-sharpening mode,
 spotlight mode,
 bistatic SAR, inverse SAR)

3 342/25R (3 OR, 0 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/25R SYNTHETIC APERTURE RADAR

3 342/387 (3 OR, 0 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/385 .Beacon or receiver
 342/386 ..With transmisson of bearing or position
 determinative signals
 342/387 ...Iso-chronic type

3 342/45 (2 OR, 1 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/42 RADAR TRANSPONDER SYSTEM
 342/45 .IFF or SIF

3 342/46 (0 OR, 3 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/42 RADAR TRANSPONDER SYSTEM
 342/46 .Navigational

3 342/59 (0 OR, 3 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS

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AND DEVICES
PLURAL RADAR

342/59

- 3 342/85 (0 OR, 3 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/73 RETURN SIGNAL CONTROLS RADAR SYSTEM
342/82 .Transmitter
342/83 ..Signal phase or frequency other than pulse
repetition frequency (PRF)
342/85 ...Function of distance
- 3 356/28.5 (0 OR, 3 XR)
Class 356 : OPTICS: MEASURING AND TESTING
356/27 VELOCITY OR VELOCITY/HEIGHT MEASURING
356/28 .With light detector (e.g., photocell)
356/28.5 ..Of light interference (e.g., interferometer)
- 3 361/284 (0 OR, 3 XR)
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

361/271 ELECTROSTATIC CAPACITORS
361/277 .Variable
361/280 ..Responsive to external condition
361/284 ...Liquid level
- 3 367/87 (2 OR, 1 XR)
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
SYSTEMS AND DEVICES
367/87 ECHO SYSTEMS
- 3 600/495 (1 OR, 2 XR)
Class 600 : SURGERY
600/300 DIAGNOSTIC TESTING
600/481 .Cardiovascular
600/485 ..Measuring pressure in heart or blood vessel

600/490 ...Force applied against skin to close blood
vessel
600/493Electric signal generated by sensing means
responsive to pulse or Korotkoff sounds
600/495Pressure in inflatable occluder
automatically raised above systolic pressur

e

- 3 701/45 (3 OR, 0 XR)
Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND

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RELATIVE LOCATION

701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR
INDICATION

701/36 .Vehicle subsystem or accessory control

701/45 ..Control of vehicle safety devices (e.g.,
airbag, seat-belt, etc.)

3 706/31 (0 OR, 3 XR)
Class 706 : DATA PROCESSING: ARTIFICIAL INTELLIGENCE

706/15 NEURAL NETWORK

706/26 .Structure

706/27 ..Architecture

706/31 ...Multilayer feedforward

2 73/167 (2 OR, 0 XR)
Class 073 : MEASURING AND TESTING

73/167 ORDNANCE AND PROJECTILE

2 73/293 (0 OR, 2 XR)
Class 073 : MEASURING AND TESTING

73/290R LIQUID LEVEL OR DEPTH GAUGE

73/293 .With illumination

2 73/660 (2 OR, 0 XR)
Class 073 : MEASURING AND TESTING

73/570 VIBRATION

73/649 .Sensing apparatus

73/658 ..With electrically controlled indicator

73/660 ...Rotating machinery or device

2 180/274 (0 OR, 2 XR)
Class 180 : MOTOR VEHICLES

180/271 WITH MEANS FOR PROMOTING SAFETY OF VEHICLE, IT

S OCCUPANT OR LOAD, OR AN EXTERNAL OBJECT

180/274 .Responsive to engagement of portion of
perimeter of vehicle with external object

2 210/170 (0 OR, 2 XR)
Class 210 : LIQUID PURIFICATION OR SEPARATION

210/153 STRUCTURAL INSTALLATION

210/170 .Geographic (e.g., drainage ditch, septic,
pond)

2 250/214.1 (0 OR, 2 XR)
Class 250 : RADIANT ENERGY

250/200 PHOTOCELLS; CIRCUITS AND APPARATUS

250/206 .Photocell controlled circuit

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250/214R ..Special photocell or electron tube circuits

250/214.1 ...Special photocell

2 250/577 (0 OR, 2 XR)

Class 250 : RADIANT ENERGY

250/200 PHOTOCELLS; CIRCUITS AND APPARATUS

250/216 .Optical or pre-photocell system

250/573 ..Fluent material in optical path

250/577 ...Volume or level

2 324/632 (0 OR, 2 XR)

Class 324 : ELECTRICITY: MEASURING AND TESTING

324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES

REPRESENTATIVE OF ELECTRICAL STIMULUS/RES

PONSE

RELATIONSHIPS

324/629 .Distributive type parameters

324/632 ..Using particular field coupling type (e.g.,
fringing field)

2 324/643 (1 OR, 1 XR)

Class 324 : ELECTRICITY: MEASURING AND TESTING

324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES

REPRESENTATIVE OF ELECTRICAL STIMULUS/R

ESPONSE

RELATIONSHIPS

324/629 .Distributive type parameters

324/637 ..Using transmitted or reflected microwaves

324/642 ...Where energy is reflected (e.g.,
reflectometry)

324/643To determine water content

2 327/183 (0 OR, 2 XR)

Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
DEVICES, CIRCUITS, AND SYSTEMS

327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING

327/183 .Delay line or capacitor storage element
charges or discharges through a tube to for

m pulse

2 329/311 (0 OR, 2 XR)

Class 329 : DEMODULATORS

329/311 PULSE OR INTERRUPTED CONTINUOUS WAVE
DEMODULATOR

2 331/87 (1 OR, 1 XR)

Class 331 : OSCILLATORS

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331/86 WITH MAGNETICALLY CONTROLLED SPACE DISCHARGE
 DEVICE (E.G., MAGNETRON)
 331/87 .With particular pulsing means

2 333/252 (1 OR, 1 XR)
 Class 333 : WAVE TRANSMISSION LINES AND NETWORKS
 333/245 LONG LINE ELEMENTS AND COMPONENTS
 333/248 .Waveguide elements and components
 333/252 ..Window

2 340/620 (1 OR, 1 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/500 CONDITION RESPONSIVE INDICATING SYSTEM
 340/540 .Specific condition
 340/603 ..Fluent material
 340/612 ...Material level
 340/618Liquid
 340/620Electrode probe

2 342/101 (1 OR, 1 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/73 RETURN SIGNAL CONTROLS RADAR SYSTEM
 342/89 .Receiver
 342/98 ..Frequency
 342/99 ...Doppler frequency tracking
 342/101With filter control

2 342/111 (0 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/104 DETERMINING VELOCITY
 342/109 .Combined with determining distance
 342/111 ..With plural receiver frequency band
 separation

2 342/123 (0 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/118 DETERMINING DISTANCE
 342/123 .Height finder

2 342/129 (0 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/118 DETERMINING DISTANCE
 342/128 .With frequency modulation
 342/129 ..Plural frequencies transmitted

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2 342/165 (0 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/165 TESTING OR CALIBRATING OF RADAR SYSTEM

2 342/176 (1 OR, 1 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/175 WITH PARTICULAR CIRCUIT
 342/176 .Display

2 342/20 (2 OR, 0 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/13 RADAR EW (ELECTRONIC WARFARE)
 342/20 .Detection of surveillance

2 342/200 (0 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/175 WITH PARTICULAR CIRCUIT
 342/200 .For frequency modulation

2 342/26R (0 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/26R Radar for meteorological use

2 342/28 (0 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/27 PRESENCE DETECTION ONLY
 342/28 .By motion detection

2 342/372 (1 OR, 1 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/368 .Including a steerable array
 342/371 ..With electronic scanning
 342/372 ...Controlled

2 342/43 (0 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/42 RADAR TRANSPONDER SYSTEM
 342/43 .Combined with primary radar system

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- 2 342/450 (0 OR, 2 XR)
 - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
 - 342/350 DIRECTIVE
 - 342/450 .Position indicating (e.g., triangulation)

- 2 342/455 (2 OR, 0 XR)
 - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
 - 342/350 DIRECTIVE
 - 342/450 .Position indicating (e.g., triangulation)
 - 342/454 ..Traffic
 - 342/455 ...Having collision avoidance

- 2 342/462 (2 OR, 0 XR)
 - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
 - 342/350 DIRECTIVE
 - 342/450 .Position indicating (e.g., triangulation)
 - 342/462 ..With altitude determination

- 2 342/463 (0 OR, 2 XR)
 - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
 - 342/350 DIRECTIVE
 - 342/450 .Position indicating (e.g., triangulation)
 - 342/463 ..Having plural transmitters or receivers

- 2 342/465 (0 OR, 2 XR)
 - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
 - 342/350 DIRECTIVE
 - 342/450 .Position indicating (e.g., triangulation)
 - 342/463 ..Having plural transmitters or receivers
 - 342/465 ...Plural receivers only

- 2 342/5 (0 OR, 2 XR)
 - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
 - 342/5 RADAR REFLECTOR

- 2 342/54 (1 OR, 1 XR)
 - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
 - 342/52 COMBINED WITH DIVERSE TYPE RADIANT ENERGY
SYSTEM
 - 342/54 .With laser

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- 2 342/70 (1 OR, 1 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/61 RETURN SIGNAL CONTROLS EXTERNAL DEVICE
 342/70 .Radar mounted on and controls land vehicle
- 2 356/4.09 (1 OR, 1 XR)
 Class 356 : OPTICS: MEASURING AND TESTING
 356/3 RANGE OR REMOTE DISTANCE FINDING
 356/4.01 .With photodetection
 356/4.09 ..Of light interference fringes
- 2 356/5.01 (0 OR, 2 XR)
 Class 356 : OPTICS: MEASURING AND TESTING
 356/3 RANGE OR REMOTE DISTANCE FINDING
 356/4.01 .With photodetection
 356/5.01 ..Of pulse transit time
- 2 356/5.03 (1 OR, 1 XR)
 Class 356 : OPTICS: MEASURING AND TESTING
 356/3 RANGE OR REMOTE DISTANCE FINDING
 356/4.01 .With photodetection
 356/5.01 ..Of pulse transit time
 356/5.03 ...Having one or more return pulse gates or
 windows
- 2 356/73.1 (1 OR, 1 XR)
 Class 356 : OPTICS: MEASURING AND TESTING
 356/73.1 FOR OPTICAL FIBER OR WAVEGUIDE INSPECTION
- 2 367/88 (0 OR, 2 XR)
 Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
 SYSTEMS AND DEVICES
 367/87 ECHO SYSTEMS
 367/88 .Side scanning or contour mapping sonar system
- s
- 2 372/18 (1 OR, 1 XR)
 Class 372 : COHERENT LIGHT GENERATORS
 372/9 PARTICULAR BEAM CONTROL DEVICE
 372/18 .Mode locking
- 2 375/238 (0 OR, 2 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/238 PULSE WIDTH MODULATION

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- 2 375/317 (1 OR, 1 XR)
 - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 - 375/316 RECEIVERS
 - 375/317 .Automatic baseline or threshold adjustment
- 2 375/345 (0 OR, 2 XR)
 - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 - 375/316 RECEIVERS
 - 375/345 .Automatic gain control
- 2 375/349 (1 OR, 1 XR)
 - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 - 375/316 RECEIVERS
 - 375/346 .Interference or noise reduction
 - 375/349 ..Plural signal paths in receiver
- 2 442/230 (0 OR, 2 XR)
 - Class 442 : FABRIC
 - 442/181 WOVEN FABRIC (I.E., WOVEN STRAND OR STRIP MATERIAL)
 - 442/228 .Including a free metal or alloy constituent
 - 442/230 ..Vapor or sputter deposited metal layer
- 2 442/231 (0 OR, 2 XR)
 - Class 442 : FABRIC
 - 442/181 WOVEN FABRIC (I.E., WOVEN STRAND OR STRIP MATERIAL)
 - 442/228 .Including a free metal or alloy constituent
 - 442/231 ..Chemically deposited metal layer (e.g., chemical precipitation or electrochemical deposition or plating, etc.)
- 2 455/305 (0 OR, 2 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
 - 455/296 .Noise or interference elimination
 - 455/303 ..Using plural separate signal paths
 - 455/305 ...With balancing or neutralizing
- 2 600/493 (2 OR, 0 XR)
 - Class 600 : SURGERY
 - 600/300 DIAGNOSTIC TESTING
 - 600/481 .Cardiovascular
 - 600/485 ..Measuring pressure in heart or blood vessel
 - 600/490 ...Force applied against skin to close blood

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vessel

600/493 Electric signal generated by sensing means
responsive to pulse or Korotkoff sounds

2 702/3 (2 OR, 0 XR)
 Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR
 TESTING
 702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT
 702/2 .Earth science
 702/3 ..Weather

2 706/20 (2 OR, 0 XR)
 Class 706 : DATA PROCESSING: ARTIFICIAL INTELLIGENCE
 706/15 NEURAL NETWORK
 706/16 .Learning task
 706/20 ..Classification or recognition

2 706/28 (0 OR, 2 XR)
 Class 706 : DATA PROCESSING: ARTIFICIAL INTELLIGENCE
 706/15 NEURAL NETWORK
 706/26 .Structure
 706/27 ..Architecture
 706/28 ...Modular

2 708/404 (0 OR, 2 XR)
 Class 708 : ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING
 AND CALCULATING
 708/100 ELECTRICAL DIGITAL CALCULATING COMPUTER
 708/200 .Particular function performed
 708/400 ..Transform
 708/403 ...Fourier
 708/404 Fast Fourier Transform (i.e., FFT)

2 708/405 (0 OR, 2 XR)
 Class 708 : ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING
 AND CALCULATING
 708/100 ELECTRICAL DIGITAL CALCULATING COMPUTER
 708/200 .Particular function performed
 708/400 ..Transform
 708/403 ...Fourier
 708/405 Discrete Fourier Transform (i.e., DFT)

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 about 3
 above 2
 abstract 1
 accompanying 1
 according 1
 accordingly 1
 achieve 1
 achieved 3
 acknowledgement 1
 after 1
 ag 1
 again 2
 alarm 2
 all 1
 allowing 2
 alone 5
 already 2
 also 1
 amplitude 1
 an 20
 and 69
 another 4
 ang 1
 antenna 2
 antennas 4
 any 3
 apparent 1
 appended 2
 application 2
 applications 2
 applied 1
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 are 27
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 arrangement 6
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 as 19
 at 14
 attempts 2
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 band 3
 based 3

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but 3
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can 5
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case 2
certain 2
changes 1
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channel 4
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choice 1
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claims 2
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communication 6
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compounds 1
comprise 2
comprises 3
comprising 3
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conjunction 1
connection 1
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contact 4
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continues 2
control 6
controlling 4
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coupled 2
course 1

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 description 3
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example 6
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field 2
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figure 2
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flowchart 1
fluid 5
fmcw 5
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for 40
form 3
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frequency 10
from 9
function 1
fundamental 1
further 3
gajjgjnng 1
gap 3
gas 1
gauge 35
gaugels 7
gauges 59
gaugets 1
gauging 14
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generated 1
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give 1
gs 3
hardware 2
has 5
have 4
having 6
height 4

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 iiquid 1
 iistening 2
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 illustration 1
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 increase 1
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 interfere 2
 interference 13
 interval 3
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 inventive 2

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latest 2
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lead 1
least 5
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level 26
limit 1
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lt 2
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measure 9
measurement 14
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measures 2
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merely 1
message 3
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mhz 2
microwave 16
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modulated 2
modulation 1

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 need 1
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 new 1
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 not 4
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 ns 2
 number 3
 numbers 1
 object 6
 objects 1
 of 88
 office 1
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 oil 2
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 operator 2
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 order 2
 other 23
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pond 1
port 1
possible 2
post 1
powder 1
predetermined 4
preferred 6
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prevent 2
preventing 7
prevention 3
prf 6
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problem 1
procedure 1
procedures 1
process 2
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product 17
produd 3
protocols 1
provide 7
provided 4
provides 1
providing 2
provisional 1
prpdud 1
ps 2
pulse 30
pulses 36
pulverized 1
purpose 1
purposes 1
radar 109
radars 1
radiated 1
recalculate 1
receive 5
received 8
receiver 4
receives 1
receiving 5
reception 1

recognized 1
redundancy 1
refefencm 1
reference 2
referring 1
refinery 1
reflected 7
related 1
relates 1
relative 1
remark 1
repeatedly 2
repetition 1
representation 1
result 4
results 2
return 1
risk 1
rod 1
rtokxkvs 1
rx 2
said 27
same 6
sand 1
saying 1
scale 1
scanning 1
schematic 1
schematically 1
scope 2
sealed 1
second 4
seconds 2
security 1
send 3
sending 1
sends 3
sensitive 1
sent 3
separated 2
sequence 1
serious 1
session 1
several 3
shaped 1
shingtqp 1
ship 1
short 2

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showing 1
shown 6
signal 3
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situations 1
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skilled 1
small 1
so 2
software 1
solely 1
solid 1
spirit 1
stand 5
start 2
starts 2
states 1
step 9
steps 3
still 2
stone 1
stop 2
storage 1
stored 3
straightforward 1
strength 1
structures 2
substantially 2
substitutions 1
such 10
suggested 1
suitable 1
summary 1
sure 1
surface 15
synchronize 1
synchronized 2
system 13
systems 1
take 2
tank 2
tel 1
telephone 1
telling 1
than 8
that 15

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then 1
there 7
thereafter 1
therefore 3
thereof 1
thereto 1
these 4
they 2
third 2
this 10
those 2
three 2
through 4
throughout 1
thus 3
time 7
timeframes 2
timing 3
to 77
today 1
top 2
towards 6
transit 1
transmission 1
transmit 6
transmits 3
transmitted 8
transmitter 4
transmitting 7
travel 1
turn 2
two 20
tx 1
type 2
types 1
uct 1
understood 3
unique 2
unit 7
united 1
units 1
unless 2
up 1
upon 2
use 4
used 15

uses 1
using 1
utilizing 1
value 2
various 1
ven 1
versa 1
versions 1
via 1
vice 1
views 1
waiting 1
water 1
wave 3
waveguide 1
way 2
well 2
when 3
where 1
wherein 2
which 19
while 3
whole 1
will 12
with 18
within 5
without 1
word 2
would 1
wrong 1
wventiqn 1
xosxcs 1